

TITLE OF THE INVENTION

DOG LEASH HANDLE

CROSS-REFERENCE TO RELATED APPLICATIONS

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH

OR DEVELOPMENT

Not Applicable

REFERENCE TO A MICROFICHE APPENDIX

Not Applicable

## BACKGROUND OF THE INVENTION

### 1. Field of Invention

This invention pertains particularly to a dog leash handle with compartments for storage, a food dish and a water dish.

### 2. Background Information

The increasing popularity of dogs in urban population centers effectively require pet owners to walk the pets in public places. Walking the dog is often the only exercise the pet and the owner get on a daily basis. The owner must carry a number of supplies during these walks to satisfy their needs as well as the needs of the dog and society. Pet owners typically carry plastic waste disposal bags, keys, money, the dog leash and pet supplies such as water and food. This forces the pet owner to carefully organize these supplies prior to departure and to juggle them during the walk.

Local ordinances often require that pet owners pick up the solid waste left by their dog. Pet owners typically use plastic bags to pick up the waste. The pet owner must remember to carry an ample supply of bags when they begin their walk. The ease, convenience and economy with which the litter may be handled in a clean and sanitary manner directly affects the willingness of pet owners to retrieve and properly dispose of their pet's waste. Disposal of the bagged waste adds another significant item to those already carried by the owner.

Many owners would like to provide their dogs with some food and water particularly during longer walks or hiking. The owner must carry the food and water and the dishes necessary for dispensing the food.

Athletic ware and other comfortable walking clothes often have no reliable way to carry loose items such as money or keys. This forces the owner to carry these items in their hands. Carrying additional items such as lip balm, a whistle and/or pepper spray greatly increases the burden on the owner.

## BRIEF SUMMARY OF THE INVENTION

The invention is a multi-compartmented dog leash handle assembly. The handle assembly has a compartment capable of carrying keys, money and/or plastic waste bags. The handle also has provisions for the easy transport of dog food and water. The handle also has a mechanism for attaching to the loop handle of a typical dog leash.

Plastic waste disposal bags can be stored in a compartment within a hollow portion in the handle assembly. The compartment can be filled with plastic bags detachably connected end to end or individual bags such as plastic grocery bags.

A water dish and a food dish are removably attached to the outer surface of the casing of the handle assembly. Either or both dishes are held fast until released. The container also functions as serving dish. The open is large enough to allow the dog easy access and permit quick clean up. The contents of the container are held in place by a removable lid.

Keys and/or money and other items can be carried in the compartment.

The owner can now carry several items in the same hand as the leash. The many storage compartments and containers provide the owner with a reliable transportation device freeing them from the need to juggle several items during their walk.

The foregoing has outlined the more pertinent and important features of the present invention. Additional features of the present invention will be described hereinafter, which form the subject of the claims. It should be appreciated by those skilled in the art that the disclosed specific embodiment might be readily utilized as a basis for modifying or designing other structures and methods for carrying out the same purposes of the present invention. It also should be realized by those skilled in the art that such equivalent constructions and

methods do not depart from the spirit and scope of the inventions as set forth in the appended claims.

## BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be more fully understood by reference to the following drawings that are for illustrative purposes only:

**Figure 1** is a side view of an embodiment;

**Figure 2** is a front view of a second embodiment;

**Figure 3** is a side view of a second embodiment;

**Figure 4** is a front view of a third embodiment;

**Figure 5** is a side view of a third embodiment;

**Figure 6** is a side view of a container; and

**Figure 7** is a plan view of a third embodiment.

## DETAILED DESCRIPTION

A multi-compartmented dog leash handle assembly is disclosed in Figure 1 which may be attached to a conventional dog leash. The handle assembly contains inside compartments suitable for carrying keys, money and/or plastic waste disposal bags. The handle assembly has containers intended for the easy transport of dog food and water. The handle also has a mechanism for attaching to the loop handle of a typical dog leash. Alternatively, in another preferred embodiment (not shown), the leash, the housing with the removably attached containers and the handle are all one integrated unit, including an optional, additional storage compartment within the hollow handle.

**Figure 1** depicts a side view of an embodiment of the assembly **10** without the food/water container attached. At least one compartment **22** is provided which covers the leash attachment mechanism **26**. In the preferred embodiment there are two outside compartments on each side of the handle assembly. The mechanism **26** has a vertically aligned fixed pin **34** mounted in the lower front portion of the compartment **22**. A spring-loaded pin **38** abuts **42** the top end of the fixed pin **34**. The centerline of the spring-loaded pin **38** and the fixed pin **34** coincide. The leash assembly may be installed by inserting the loop handle (not shown) of a conventional leash (which is usually held by the dog owner). The loop is inserted through the opening in the forward facing end **46** of the first compartment **22**, retracting the spring-loaded pin **38** enough to allow the loop handle to pass under it and then fully extending the spring-loaded pin **38** to abut against the fixed pin **34** to retain the loop handle.

In the preferred embodiment, the hollow grip **14** defines an interior storage compartment **16**. The hollow grip **14** is attached to the back end of the first compartment **22** and is suitable for storing keys, money and/or plastic waste disposal bags. The compartment can be filled with plastic bags detachably connected end to end or individual bags such as grocery bags. A lid **18**, located at the base of the grip **14** or on its side or at its top, affords easy entry to the storage compartment **16**.

The outer surface of the first compartment **22** has an arcuate retaining flange **50**. Each container has a perimeter lip on the rim of the dish. Each container has an air and watertight removable lid. A rotating latch **54** is mounted on the top of the first compartment **22** to secure the container to the compartment **22**. The attachment process includes sliding the lip under the edge of the flange **50** and rotating the latch **54** to secure the container in place. The container also functions as serving dish. The opening of the container is large enough to allow the dog easy access and to permit quick clean up.

**Figures 2 and 3** depict another embodiment of the device **110**. The compartment **122** covers the leash attachment mechanism **126**. The mechanism **126** has a vertically aligned fixed pin **134** mounted in the lower front portion of the compartment **122**. A spring-loaded pin **138** abuts **142** the top end of the fixed pin **134**. The centerline of the spring-loaded pin **138** and the fixed pin **134** coincide. Leash installation consists of inserting the loop handle of a typical leash through the opening in the forward facing end **146** of the first compartment **122**, retracting the spring-loaded pin **138** enough to allow the loop handle to pass under it and then fully extending the spring-loaded pin **138** to abut against the fixed pin **134** to retain the loop handle.



In this embodiment, the hollow grip **114** defines the storage compartment **116**. Attached to the back end of the first compartment **122**, the hollow grip **114** is suitable for storing keys, money and/or plastic waste disposal bags. The compartment can be filled with plastic bags detachably connected end to end or individual bags such as grocery bags. A lid **118**, located at the base of the grip **114** or on its side or at its top, affords easy entry to the storage compartment **116** and secures the items placed inside.

The outer surface of the first compartment **122** has an arcuate or semi-circular shaped retaining flange **150**. Each container **152** has a perimeter lip **156** formed outward from the rim of the dish **160**. Each container **152** has an air and watertight removable lid. Mounted on the top of the first compartment **122** is a rotating latch **154**. When attached to the handle assembly **110**, the containers **152** sandwich the first compartment **122**. The attachment process includes sliding the lip **156** under the edge of the flange **150** and rotating the latch **154** to secure the container **152** in place. The container **152** also functions as serving dish. The opening is large enough to allow the dog easy access and permit quick clean up.

**Figures 4, 5, 6 and 7** depict another embodiment of the device **210** which includes a hole **242** to receive and secure the spring-loaded **238** pin after it is inserted through the loop handle of the leash. The first compartment **222** covers the leash attachment mechanism **226**. The mechanism **226** has a vertically aligned spring-loaded pin **238**. The end of the spring-loaded pin **238** engages a receiver hole when fully extended. The centerline of the receiver hole **242** and the centerline of the spring-loaded pin **238** coincide. Installation of the leash assembly of the present invention includes inserting the loop handle of a typical leash through the opening in the forward facing end **246** of the first compartment **222**, retracting the spring-

loaded pin **238** enough to allow the loop handle to pass under it and then fully extending the spring-loaded pin **238** back into the receiver hole **242** to retain the loop handle.

In the preferred embodiment, the hollow grip **214** and the back end of the first compartment **222** define a contiguous storage compartment **216**. A partition **218** separates the storage compartment **216** from the leash attachment mechanism **226**. Attached to the back end of the first compartment **222**, the storage compartment **216** is suitable for storing keys, money and/or plastic waste disposal bags. The compartment **216** can be filled with plastic bags detachably connected end to end or individual bags such as grocery bags. A lid **218**, located at the base of the grip or on its side or at its top **214**, affords easy entry to the storage compartment **216**.

The outer surface of the first compartment **222** has a semi-circle shaped retaining flange **250**. Each container **252** has a perimeter lip **256** extending outward from the rim of the dish **260**. Each container **252** has an air and watertight removable lid **264**. Mounted on the top of the first compartment **222** is a rotating latch **254**. When attached to the handle assembly **210**, the containers **252** sandwich the first compartment **222**. The attachment process includes sliding the lip **256** under the edge of the flange **250** and rotating the latch **254** to secure the container **252** in place. The container **252** also functions as serving dish. The opening is large enough to allow the dog easy access and permit quick clean up.

A retractable leash mechanism can replace leash attachment mechanism in the first compartment of each embodiment. The retractable leash mechanism has a biased reel installed with its axel perpendicular to the outer surface of the first compartment at the container attachment point. The attached leash can extend or retract relative to the first compartment.

The storage compartment and/or the lid can be transparent in each embodiment. This would allow an internal view of the contents of the storage compartment.

The present disclosure includes that contained in the present claims as well as that of the foregoing description. Although this invention has been described in its preferred forms with a certain degree of particularity, it is understood that the present disclosure of the preferred forms has been made only by way of example and numerous changes in the details of construction and combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention. Accordingly, the scope of the invention should be determined not only by the embodiments illustrated, but by the appended claims and their legal equivalents.